

What is claimed is:

1. An audio processing apparatus comprising:

converting means for converting n-channel (positive integral number:  $n \geq 1$ ) audio signals supplied from at least one signal source into two-channel output signals;

a pair of correcting filter means to which a pair of two-channel signals converted by said converting means is supplied, said correcting filter means converting a difference of the sense of hearing due to a difference between right and left characteristics of a headphone; and

an output section for supplying a pair of output signals from said pair of correcting filter means to right and left speaker units of the headphone.

2. The audio processing apparatus according to claim 1, wherein at least two pairs of correcting filter means are provided, and correcting characteristics of said two pairs of correcting filter means are set differently.

3. The audio processing apparatus according to claim 1, wherein:

the output signals corrected by one pair of correcting filter means in said two pairs of correcting filter means are supplied from a first output section to a first headphone, and

the output signals corrected by the other pair of correcting filter means are supplied from a second output section to a second headphone.

4. The audio processing apparatus according to claim 1, wherein output which is selected from the output of said at least two pairs of correcting filter means is supplied to said output section.

5. The audio processing apparatus according to claim 1, wherein said pair of correcting filter means is composed of digital filters.

6. The audio processing apparatus according to claim 1, wherein said pair of correcting filter means is composed of analog filters.

7. The audio processing apparatus according to claim 1, wherein at least two pairs of correcting filter means are provided, and as for correcting characteristics of said pairs of correcting filter means, a plurality of correcting data can be selectively set.

8. The audio processing apparatus according to claim 1, wherein the signal source is composed of at least five

positions: left front; right front; center front; left rear; and  
right rear positions.

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